



D0 Status Report

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FNAL

All Experimenters' Meeting
14 March 2011



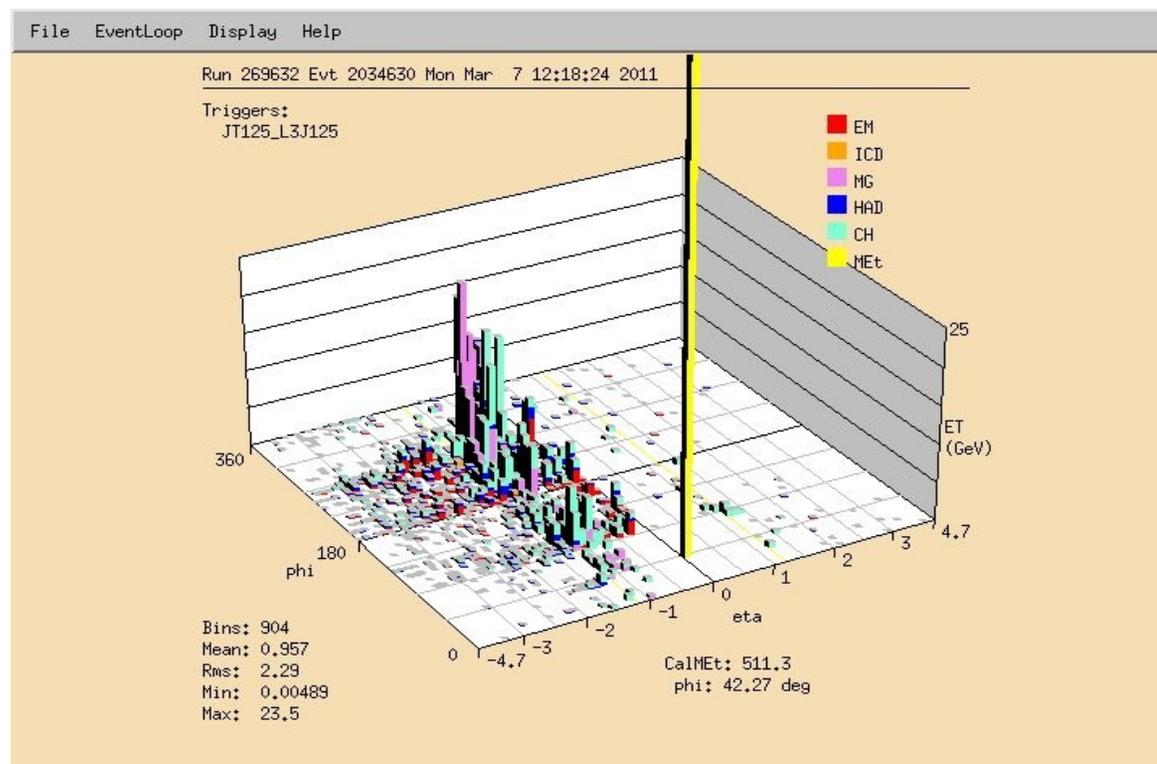
Data Taking

	Delivered Lum (pb ⁻¹)	Recorded Lum (pb ⁻¹)	Efficiency (%)	Comment
7 Mar	0.00	0.00		
8 Mar	0.00	0.00		
9 Mar	0.00	0.00		
10 Mar	0.00	0.00		
11 Mar	0.00	0.00		
12 Mar	2.51	2.21	88	40 minutes down due to a forward muon power supply failure late in the store.
13 Mar	3.58	3.30	92	Access to replace power supply. Access to recover silicon channels.
7-13 Mar	6.1	5.5	90	
February	165.0	152.9	92.7	5th best monthly efficiency.



Calorimeter Noise

- During store 8556 (the last store before the shutdown) low rate noise was observed in some D0 calorimeter triggered events.
 - Following this store, and for the first day of the shutdown, D0 performed a hunt for the source of this noise.
 - Many pieces of equipment were turned off.
 - Some did not recover without being repaired.
 - During this process, the noise went away
 - The full detector was turned on and so far no further sign of this noise has been observed.





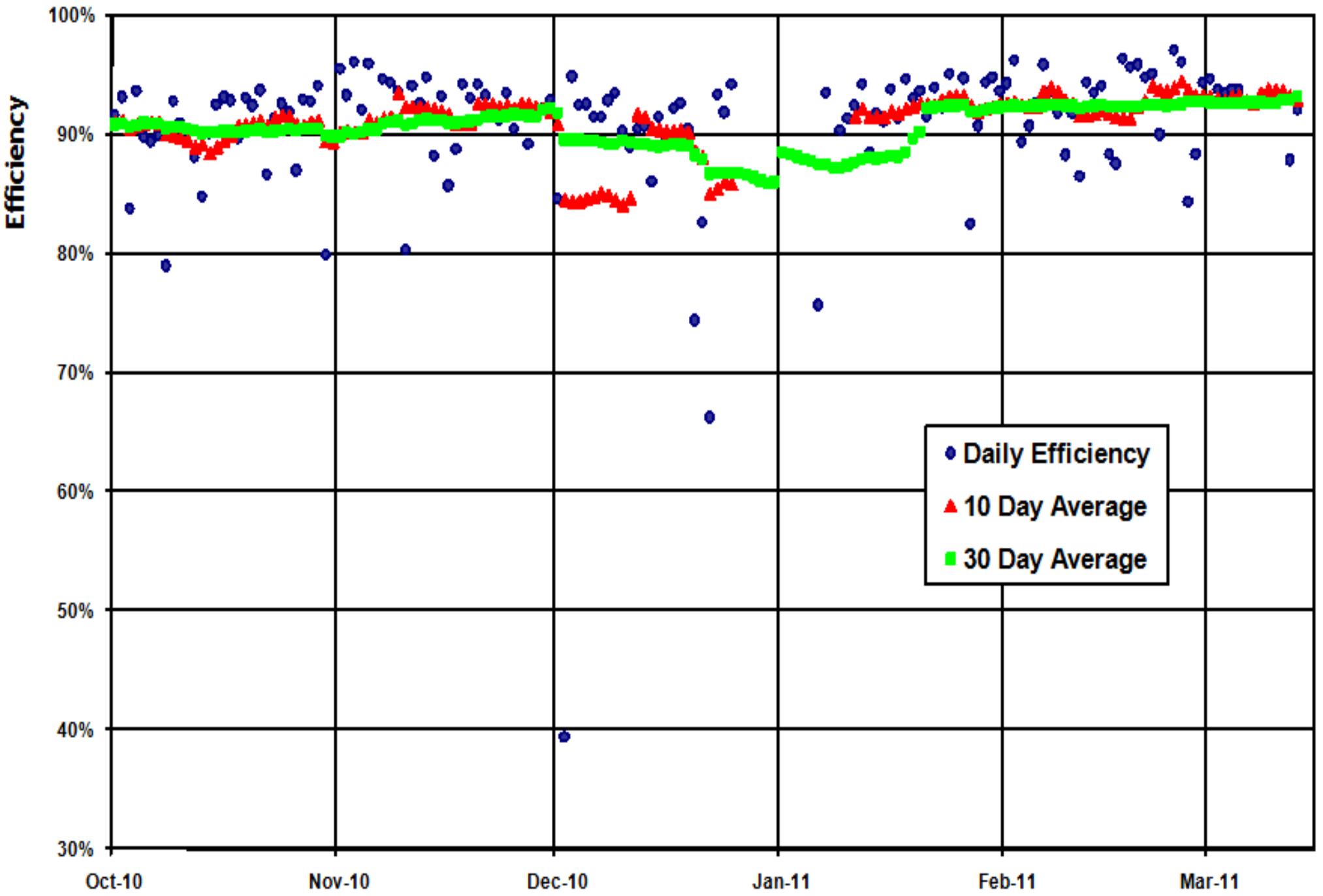
Shutdown Significant Events

- Calorimeter noise investigation and recovery.
- Recovered individual channels
 - Calorimeter, Muon, and Silicon.
- Replaced a trigger framework board to address water damage.
- Located and repaired a leaking muon gas relief valve.
- Tested the updated fiber tracker firmware.
- Installed 5 of 6 of “R2D0” devices.
 - These provide a secondary silicon sequencer power supply.
- Swapped the toroid power supply reference module.
- Interlocks were unintentionally dropped.
 - Moved to supervised access.
 - Appreciate search and secure team coming over Thursday evening.



Daily Data Taking Efficiency

1 October 2010 - 13 March 2011





Run II Integrated Luminosity

19 April 2002 - 13 March 2011

